

CITY OF SOMERSWORTH S P E C I F I C A T I O N S

REQUEST FOR PRICING INFORMAITON ONLY

For

B14034 PAVEMENT MARKING

FEBURARY, 2014

Prepared by:
COMMUNITY SERVICES DEPARTMENT
ENGINEERING DIVISION
288 CENTRAL AVENUE
DOVER, NEW HAMPSHIRE 03820
(603) 516-6450

INFORMATION TO BIDDERS

The City of Somersworth is requesting Pricing Information Only for pavement marking throughout the City. No funds have been allocated to complete this work.

Should the city of Somersworth consider completing this scope of work, the following specifications would be adhered to.

This project shall consist of two (2) phases.

The first, which includes the first application of all markings described in the contract specifications, shall be completed by **May 23, 2014**.

The second phase is to involve a second application to crosswalks to be completed between September 1, 2014, and October 1, 2014. Total contract completion date shall be December 31, 2014 to accommodate Section 00300, paragraph B.2 of these Specifications.

In order to make it cost effective to the owner the contractor must dispatch a minimum of two crews on any given night.

Traffic control is required at all times and must be provided by bidder in accordance with MUCTD .

Crosswalks will be painted twice per season, contingent upon funding availability.

Any over beading by bidder will be their responsibility to sweep up and removed.

INVITATION TO PROVIDE **COST INFORMATION**

The City of Somersworth, New Hampshire, will accept sealed pricing for pavement marking in the City. Bids must be submitted to Dover NH in a sealed envelope plainly marked:

"Sealed Bid, B14034 PAVEMENT MARKING"

City of Dover, Purchasing Office
Municipal Building
288 Central Ave
Dover, NH 03820

All bids must be received as indicated on Request for bid cover page. No late bids and no telephone bids will be accepted. All bids must be made on the bid forms supplied, and the bid forms must be fully completed when submitted. **NO BID Bond** is required at this time but should the work be scheduled a 100% Payment Bond and 100% Performance Bond will be required.

Federal wage rates DO NOT apply to this contract.

The contract documents may also be examined at the following locations:

City of Dover Purchasing Office, Municipal Building, 288 Central Ave Dover, NH
City of Somersworth, 1 Government Way Somersworth NH
City of Dover Engineering Office, 271 Mast Rd., Dover, NH
F. W. Dodge Plan Room, 835 Hanover St., Suite 103, Manchester, NH
Construction Summary, 734 Chestnut St., Manchester, NH

The City of Somersworth reserves the right to accept any bid, and to reject any or all bids. The City reserves the right to award the bid to other than the low bidder if bid deemed most advantageous to the City. The City reserves the right to accept the bid on one or more items of a proposal, on all items of a proposal or any combination of items. The City reserves the right to waive defects and informalities of bids.

Ann M. Legere, CPPB
Purchasing Agent
a.legere@doover.nh.gov

BID FORM

Proposal of

hereinafter called "**BIDDER**", organized and existing under the laws of the state of _____
doing business as _____

(insert "a corporation", "a partnership", or "an individual" as applicable)

to the **City of Somersworth, New Hampshire**, hereinafter called "**OWNER**".

In compliance with your Advertisement for Bids, BIDDER hereby proposes to perform all WORK for the **PAVEMENT MARKING** project in strict accordance with the CONTRACT DOCUMENTS, within the time set forth therein, and at the prices stated below.

By submission of this BID, each BIDDER certifies that this BID has been arrived at independently, without consultation, communication, or agreement as to any matter relating to this BID with any other BIDDER or with any competitor.

BIDDER hereby agrees to commence WORK under this contract on or before a date to be specified in the **NOTICE TO PROCEED** and to fully complete the project within the times specified.

BIDDER acknowledges receipt of the following ADDENDUM (if applicable):

BIDDER agrees to perform all the work described in the CONTRACT DOCUMENTS for the following unit prices:

BID SCHEDULE

(NOTE: BIDS shall include all applicable costs)

ITEM NO.	UNIT	PRICE	TOTAL QUANTITY	PRICE
1. CROSSWALKS	EA	_____	203	_____
2. 4" WHITE LANE LINES, FOG LINES	LF	_____	0	_____
3. 12" STOP BARS, GORE LINES	LF	_____	1200	_____

BID SCHEDULE cont.
PAVEMENT MARKING
(NOTE: BIDS shall include all applicable costs)

ITEM NO.	UNIT	UNIT PRICE	QUANTITY	TOTAL PRICE
4. PARKING LOT STALLS	LF	_____	0	_____
5. "YIELD" and PEDESTRIAN SYMBOL	EA	_____	0	_____
6. 4" YELLOW LINES, and NO PARKING LINES	LF	_____	0	_____
7. "SCHOOL AHEAD" MARKINGS	EA	_____	8	_____
8. ARROWS	EA	_____	60	_____
9. "ONLY" MARKINGS	EA	_____	0	_____
10. HANDICAP LOGOS with BLUE SQUARE (special size)	EA	_____	0	_____
11. LINE REMOVAL	SF	_____	0	_____
12. RAILROAD CROSSINGS	EA	_____	2	_____
13. BIKE SYMBOL (CITY SUPPLIED STENCIL)	EA	_____	0	_____
* 14. EPOXY CROSSWALKS and STOP BARS 12" LINES	LF	_____	0*	_____

TOTAL PAVEMENT MARKING BID:

\$ _____
(U.S. DOLLARS)

(Written)

* Indicates indeterminate quantity, assumed for comparison of bids

NOTE: It is understood that the various unit prices bid will control in any contract which may be awarded arising from this Proposal; that the estimated quantities above are approximate only and used only for the comparison of bids; and are subject to increase or decrease as required to properly complete the Contract Work. It is further understood that any portion, or the entire amount, of any bid item(s) may be deleted in order to meet the allocated budget dollar amount. If any quantity in the BID is increased or decreased by **25%** of the amount in the BID SCHEDULE, or any item(s) or work is extended or increased by **25%** of the amount in the BID SCHEDULE, the OWNER retains the right to renegotiate the unit price of said item(s).

BID CERTIFICATE

The undersigned represents that they are authorized to bind the bidder to the bid amount specified and hereby offers to provide the City of Somersworth the commodities and services as contained in the attached competitive sealed bid specifications at the price stated in complete accordance with all conditions of the bid specifications. Furthermore,

The undersigned certifies that this bid is in all respects bona fide, fair, and made without collusion or fraud with any other person. As used in this section the word "person" means any natural person, joint venture, partnership, corporation, or other business or legal entity.

Signature/Title

Company

Business Address _____

City/Town _____

State/Zip _____

Date

Phone Number

Check here if appropriate: _____(X) NO BID

Any deviations from the above state specifications must be so noted and any bid prices must be reflective of these deviations.

FOR PRICING INFORMATIONAL PURPOSE ONLY

GENERAL TERMS AND CONDITIONS

Preparation of Bids/Proposals

Bids shall be submitted on the forms provided and must be signed by the bidder or the bidder's authorized representative. The person signing the bid shall initial any corrections to entries made on the proposal form.

Unless otherwise stated in the Request for Bid/Proposal, the bidder agrees that the bid shall be open for acceptance for sixty (60) calendar days from the date of submittal to the City of Somersworth.

Acceptance or Rejection of Bids/Proposals

The City of Somersworth reserves the right to reject any or all bids, to waive technical or legal deficiencies, and to accept any bid that is determined to be in the best interest of the City.

The City of Somersworth also reserves the right to reject the bid of a bidder that has failed to perform properly or complete on time contracts of a similar nature.

Delivery of Bids/Proposals

Bids must be submitted in a sealed envelope, and shall be addressed to the City at the address and to the attention of the official as outlined in the bid documents. All bids must be submitted prior to the specified date and time. Any bids received after the specified date and time will not be considered and will not be opened. Bids delivered via facsimile, e-mail, or any format other than within a sealed envelope shall not be considered.

Withdrawal of Bids/Proposals

A bidder will be permitted to withdraw their bid unopened after it has been deposited if such request is received in writing prior to the time specified for opening the bid.

Public Opening of Bid/Proposals

Bids will be publicly opened and read aloud at the time and place as indicated in the bid documents. Any bidder, authorized agent, or other interested party may be present.

Bid/Proposal Ownership and Costs

Upon submission, bids become the property of the City of Somersworth. The cost of preparing and submitting a bid is the sole responsibility of the bidder and shall not be chargeable in any manner to the City. The City will not reimburse any bidder for any costs associated with the preparation and submission of a bid.

Examination of Proposed Materials

The submission of a bid shall be deemed a representation and warranty by the bidder that it has investigated all aspects of the RFP, that it is aware of the applicable facts pertaining to the RFP process and its procedures and requirements, and that it has read and understands the RFP. No requests for modification in the provisions of the bid shall be considered after its submission on the grounds that the bidder was not fully informed as to any fact or condition. Statistical

information, which is contained within a RFP or any addendum thereto, is for informational purposes only. The City disclaims any responsibility for this information that may subsequently be determined to be incomplete or inaccurate

Quantities

Quantities of materials, whether to be used on projects, or purchased directly by the City, are provided for informational purposes only unless otherwise specifically stated. The City disclaims any responsibility for this information that may subsequently be determined to be incomplete or inaccurate. Bidders are responsible to verify the accuracy of these estimates.

Buy Local

The City of Somersworth reserves the right to award any bid to local vendors, as determined by the City, even in the event they may not be the lowest qualified vendor, if it is determined to be in the best interest of the City. The City will consider such factors as overall cost, prior service, and any other pertinent information available when making such decisions.

Insurance Requirements

The successful bidder shall procure and maintain insurance, in the amounts and coverage detailed by the proposal documents at the bidder's sole expense. The successful bidder shall be required to present to the City of Somersworth a certificate of insurance in the amounts required naming the City of Somersworth as an additional insured.

Bid Results

After the bids are opened and read, the bid results will be available for the public. Bidders that desire a comprehensive list of the bid results may do so by attending the bid opening, or requesting such, in writing, to the Director of Finance and Administration.

The award of a bid shall not be considered official until such time that a Purchase Order, fully executed contract, or an award letter has been issued by the City of Somersworth. No presumption of award shall be made by any bidder until such documents have been executed and are in hand. Verbal notification of award is not considered official. Any action by the bidder to assume otherwise is done so at their own risk and the City will not be held liable for any expense incurred by a bidder that has not received an official award.

GENERAL CONDITIONS

SECTION 00300

A. GENERAL DESCRIPTION OF WORK

This project involves installation of reflectorized paint pavement markings at various locations throughout the City. The type of markings required under this contract will include work which normally cannot be placed by use of a truck mounted system. The work shall consist of short lines for traffic delineation and parking stalls, and various symbols, words, arrows or other logos as required.

B. SCHEDULES

1. The CONTRACTOR shall submit to the OWNER (through the ENGINEER) a progress schedule for prosecution of the WORK. The CONTRACTOR shall continually update said schedule on a weekly basis. The CONTRACTOR shall be required to schedule work and crews in a manner that will minimize impact to traffic. For the purpose of this contract, the normal working hours shall be **9pm to 6am Sun-Thurs, during the nighttime hours**. **Prior to start of work, a preconstruction meeting will be required. (See Paragraph "C" of this section.)**

2. Scheduling

- a. Pavement marking shall be completed in two (2) phases:

1. **Phase I**: includes all markings described in the contract specifications and shall be completed by **May 23, 2014**.
2. **Phase II**: involves a second application to crosswalks and stop bars, and shall be completed between **September 1, 2014 and October 1, 2014**.

- b. **Contractor shall be available to respond to all requests for pavement marking, other than emergency requests, within 14 calendar days.** This work shall be in conjunction with but not limited to the Community Services Department resurfacing program and utility projects.

c. **Emergency marking requests**

Contractor shall be available to respond to emergency marking services within seven (7) calendar days of notification. This shall be only when lack of pavement markings presents a potentially dangerous or confusing environment for motorists.

C. PROJECT MEETINGS

1. Pre-Construction Conference

The CONTRACTOR shall not commence work until a conference has been held at which representatives of the CONTRACTOR, ENGINEER, and OWNER are present. The meeting shall be scheduled on a normal workday between the hours of 8:00am and 4:00pm.

The CONTRACTOR will be required to have a designated supervisor attend this meeting. This person shall be responsible for noting all work to be performed.

The intent of this meeting is to allow the Contractor, Engineer, and Owner the opportunity to preview the work during the daylight hours.

2. During Construction

The Contractor's Supervisor shall be available to meet with the Engineer at 6:00am, **after each night's work**. This meeting will be to review the previous night's work and any work to be installed during the next scheduled work night. The City will not be responsible for any additional costs incurred by CONTRACTOR for having to return to complete or correct any work.

All questions or problems that may arise after construction has begun shall be directed to the Scott Smith 603-692-9504 between the hours of 8am and 4pm Monday through Friday.

D. INSPECTION

1. All materials and equipment used in the application of pavement markings shall be subject to adequate testing and inspection in accordance with this contract and accepted standards.
2. The CONTRACTOR shall furnish and have available for the Engineer's use the following inspection equipment:
 - a. wet film thickness gauge - scale shall range from 2 mils to at least 30 mils, in 2-mil increments.
 - b. pocket microscope - shall have a four-part lens system having magnification of 20x, with a clip-on accessory light.
3. Inspections, tests or approvals by the ENGINEER or others shall not relieve the CONTRACTOR from his obligations to perform the WORK and insure its final suitability.

4. The Contractor shall make the work area accessible to the Owner or his Representative at all times.
5. The Contractor shall be responsible to have a qualified supervisor present on the project at all times. The Supervisor shall be designated as the Contractor's Representative on the project and shall have full authority to act on behalf of the Contractor. The Supervisor shall be required to perform supervision of other employees and to coordinate the work.

E. CONTRACT SECURITY

The Contractor shall within ten (10) days after the receipt of the NOTICE OF AWARD furnish the OWNER with a Performance Bond and a Payment Bond in penal sums equal to the amount of the contract price, conditioned upon the performance by the Contractor of all undertakings, covenants, terms, conditions and agreements of the Contract Documents. Such bonds shall be executed by the Contractor and a corporate bonding company licensed to transact such business in the State of New Hampshire.

F. INSURANCE

- a. The Vendor shall secure and maintain for the duration of this project a General Liability Insurance policy or policies at no cost to the City of Somersworth. The coverage of said insurance policy shall be in an amount of not less than Two Million Dollars (\$2,000,000) per occurrence. An insurance certificate shall be supplied to the City by the Vendor. The City of Somersworth shall be named as an additional insured on the policy. A condition of the insurance coverage shall be thirty (30) days notice to the City upon cancellation of the policy. The Vendor shall also provide the City certificates of renewal for any applicable insurance policy no later than ten (10) business days prior to the expiration of said policy.
- b. The Vendor shall secure and maintain for the duration of this project Automobile Liability Insurance covering the operation of all motor vehicles, including those hired and borrowed, used by the Vendor in connection with this project at no cost to the City of Somersworth. The coverage of said insurance policy shall be in the amount of not less than Five Hundred Thousand Dollars (\$500,000) for all damages arising out of bodily injuries to or death of one person and subject to that limit for each person, a total limit of at least One Million Dollars (\$1,000,000) for all damages arising out of bodily injuries to or death of two or more persons in any one accident or occurrence. An insurance certificate shall be supplied to the City by the Vendor. The Vendor shall also provide the City certificates of renewal for any applicable insurance policy no later than ten (10) business days prior to the expiration of said policy.

- c. By signing an Agreement, the Vendor agrees, certifies, and warrants that the Vendor is in compliance with, or exempt from, the requirements of New Hampshire RSA Chapter 281-A, regarding workers' compensation insurance. The Vendor shall maintain statutory workers' compensation insurance coverage for all of its employees as required by said law.

PAINT/EPOXY PAVEMENT MARKINGS

SECTION 00400

A. GENERAL DESCRIPTION

Work shall consist of installing white and yellow reflectorized paint pavement markings at locations approved by the ENGINEER. Installation shall be done in accordance with the standards of the 2009 edition of MUTCD, and NHDOT Standards and Specifications (specifically sections 632 and 708) dated 2010.

B. MATERIALS – WATER BORNE APPLICATIONS

1. Glass beads for reflectivity shall conform to AASHTO M 247 and shall be Type 1 with a moisture resistant coating.
2. Paint shall conform to NHDOT specifications
 - a. white: 708-NH 4.11
 - b. yellow: 708-NH 4.12
 - c. This will be a ready-mix 100% acrylic type, low VOC, fast drying, white or yellow waterborne traffic paint that shall be used as a base for reflective beads, or for use as a plain non-reflective paint. The paint shall be suitable for either bituminous or concrete surfaces
3. Any substitutions of materials defined in this contract must be requested in writing to the Engineer for approval. If the Engineer deems substitutions to be of equal substance and function to that specified, the Engineer may approve its use by the Contractor. The Engineer shall notify the Contractor in writing.

C. CONSTRUCTION

1. All line markings shall be reproduced in-kind unless otherwise noted by this Contract or as directed by the ENGINEER. Symbols and words shall be in accordance with the standards of the 2009 edition of the MUTCD. (See Appendix B). All markings shall be placed at locations specified by this Contract or as ordered by the ENGINEER.
2. All markings placed to reproduce existing lines shall be done in a manner that produces results which are true and consistent with roadway tangents, curves, and original markings. Any markings placed which do not represent these conditions or are misplaced shall be removed and replaced correctly at the CONTRACTOR'S expense.
3. The equipment used to apply paint shall be an atomizing spray-type striping machine. The equipment shall include a drop-on bead dispenser capable of applying beads at a specified

4. **Paint shall be applied uncut. No thinning or diluting of any type shall be permitted.**
Application thickness shall be 20 mils wet.
5. Beads shall be applied at a rate of 6 pounds of beads per one (1) gallon of paint.
6. Prior to applying paint to pavement, the CONTRACTOR shall ensure that surface is dry and free of dirt, grease, oil or other foreign material. Also surface temperature of pavement shall be a minimum of 40 degrees Fahrenheit.
7. Newly applied pavement markings shall be protected from traffic until the paint has cured. The method of protection shall not constitute a hazard to the traveling public. The CONTRACTOR, at his expense, shall repair damage to markings done as a result of tracking by a method approved by the ENGINEER.

D. MATERIALS – EPOXY RESIN

1. **Description:** This item shall consist of furnishing and installing reflectorized white and yellow epoxy resin pavement markings of the width and color specified and epoxy resin pavement markings, symbols and legends at the locations indicated on the plans and in conformity with the plans, these specifications and as directed by the Engineer.
Epoxy resin pavement markings, symbols and legends include stop bars, crosswalks, parking stalls, lane arrows, legends, and markings within areas such as paved islands, gore areas and paved medians.

2. **Materials and Construction Methods:** Equipment furnished shall include an applicator truck of adequate size and power, together with (a) remote application equipment designed to apply an epoxy resin material in a continuous pattern and (b) portable glass bead applicators, one for each size bead, designed to provide uniform and complete coverage of the epoxy binder by a controlled free fall method. Pressurized glass bead application shall not be used. Before epoxy color is changed, equipment shall be cleaned out sufficiently to ensure that the color of material applied will be correct.

For markings applied on pavements over one year old, equipment furnished shall also include a power washing machine capable of cleaning the pavement with a pressure of 16 550 to 19 300 kPa, with water heated to 82° - 90° C. No chemicals shall be added to the water used in the process. The power washer shall be equipped with a turbo blast tip with an oscillating head and shall be capable of supplying a minimum of 19 liters/minute/gun.

All guns on the spray carriages shall be in full view of the operator(s) during operation. Each vehicle furnished shall include at least one experienced operator, who shall be fully knowledgeable about all equipment operations and application techniques, to oversee the project operation.

The Contractor shall also furnish one technical expert, who shall be fully knowledgeable about all equipment operations and applications techniques.

3. **Procedures:** Pavement markings shall be applied in accordance with the details shown on the plans and the control points established by the Contractor and approved by the Engineer.

The road surface shall be cleaned at the direction of the Engineer just prior to application. Pavement cleaning shall consist of power washing using clean water heated to 82° - 90° C at a pressure of 16 550 – 19300 kPa. The areas to be power washed shall include all areas where epoxy marking symbols and legends (including stop bars and crosswalks) are to be applied and at least 25 mm beyond the area to be marked. The surface shall be cleaned to the satisfaction of the Engineer. For other pavement areas, cleaning shall consist of brushing with rotary broom (non-metallic), and any additional work as recommended by the material manufacturer and acceptable to the Engineer. New portland cement concrete surfaces shall be cleaned by abrasive blasting to remove any surface treatments and/or laitance. New bituminous concrete surfaces are not to be power washed.

All surfaces which are power washed shall be allowed to dry sufficiently prior to the application of the epoxy markings. The areas to be marked shall be broom cleaned immediately prior to the application of the epoxy markings. The areas to be marked shall be broom cleaned immediately prior to the application of the epoxy markings. Glass beads shall be applied immediately after application of the epoxy resin marking to provide an immediate no-track system.

The Contractor will place necessary “spotting” at appropriate points to provide horizontal control for striping and to determine necessary starting and cutoff points. Broken line intervals will not be marked. Longitudinal joints, pavement edges and existing markings shall serve as horizontal control when so directed.

A tolerance of 6 mm under or 6 mm over the specified width shall be allowed for striping provided the variation is gradual and does not detract from the general appearance. Alignment deviations from the control guide shall not exceed 50 mm provided the variation is gradual and does not detract from the general appearance. Material shall not be applied over a longitudinal joint. Establishment of application tolerances shall not relieve the Contractor of the responsibility to comply as closely as practicable with the planned dimensions.

Operations shall be conducted only when the road surface temperature is 10° C or as allowed by the Engineer. They shall be discontinued during periods of rain, and shall not continue until the Engineer determines that the roadway surface is dry enough to achieve adhesion.

Glass beads conforming to the requirements of Grading “B” (larger beads) shall be applied at a rate of 1.44 kg/l of epoxy pavement marking material, immediately followed by a second drop of glass beads conforming to the requirements of Grading “A” (smaller beads) applied at a rate of 1.55 kg/l of epoxy pavement marking material. Traffic cones or some other acceptable method shall be used to protect the pavement markings until cured.

Time to No-Tract: The material shall be in “no-tracking” condition within 15 minutes, or as allowed by the Engineer. The no-tracing time shall be determined by passing over the line with a passenger car or pickup truck in the simulated passing maneuver. A marking showing no visual deposition of the material to the pavement surface when viewed from a distance of 15 meters shall be considered as showing “no-tracking” and conforming to this requirement for time to no-track.

When stencils are used during the application of epoxy markings, care must be used when removing the stencils so that the epoxy resin does not drip on the road, sidewalk, grass, etc., and so that the applied markings have edges which are clean, straight and neat.

Epoxy resin pavement markings may be applied over existing painted markings provided they are sufficiently worn to allow adequate adhesion. If required by the Engineer, existing plastic, thermoplastic, epoxy or freshly painted markings shall be removed prior to the application of epoxy markings. Payment for removal will be made under the item “Removal of Pavement Markings”.

Performances and Warranty: In order to be accepted, the applied markings must meet the following minimum retroreflectivity reading as measured using an LTL 2000 Retrometer with 30 meter geometry one to two weeks after installation:

White Epoxy	250 millicandelas per lux per square meter
Yellow Epoxy	175 millicandelas per lux per square meter

WARRANTY:

The Contractor shall warrant for the period and percentage shall show no fading, lifting, shrinking, tearing, rollback, distortion of chipping due to vehicular traffic or normal maintenance activities including snow plowing. Although some wear is expected, the markings shall not wear out for the period and percentage level indicated below.

	<u>First Year</u>
Epoxy Resin Pavement Markings	95% (meters)
Epoxy Resin Pavement Markings, Symbols and Legends	95% (square meters)

In addition, the epoxy resin pavement markings shall be warranted to retain a minimum reflective value of 150 millicandelas per lux per square meter one year after installation. The measurements shall be made utilizing an LTL 2000 Retrometer with 30 meter geometry.

E. ITEM DESCRIPTIONS

1. Crosswalks

There are approximately 190 crosswalks in the City, consisting of approximately 29,400 linear feet of 12 inch white line meeting the following configuration. Crosswalks shall be 2 parallel 12-inch lines 8-10 feet apart, with crossbars 12 inches in width placed at a 45 degree angle at 36-inch intervals. All crosswalks are to be reflective.

2. On-street parking stalls

These consist of perpendicular, angle and parallel parking stalls. The stalls shall be 4-inch, white, non-reflectorized lines.

3. Lane lines, stop bars and gore lines

Lines shall be white reflectorized markings.

Lane lines and fog lines shall 4-inch lines or replaced in-kind.

Stop bars shall be 12 inches wide.

4. Parking lot stalls

Parking stalls shall be white non-reflectorized 4-inch lines, and yellow 4-inch non-reflectorized lines to delineate no parking zones.

5. Yield and pedestrian markings

Markings are to be yellow reflectorized word (**YIELD**) and Pedestrian symbol meeting the MUTCD requirements.

6. No parking lines

These shall be 4-inch yellow reflectorized lines placed along curb lines and other "no parking areas".

7. Words, symbols and arrows

These shall be reflectorized pavement markings in accordance with MUTCD and NHDOT standards. For size and configuration, see Appendix B. Color of pavement markings shall be reproduced in-kind or as ordered by the ENGINEER.

8. Handicap Logo's

These shall be in accordance with ADA (Americans with Disabilities Act) regulations. (See Appendix B.)

9. Line removal

Pavement marking removal shall result with a minimum of pavement distress or scar to the surface. Removal may be accomplished by sand blasting, grinding, wire brushing or as approved by the ENGINEER. Method used shall remove all paint, tape or other materials. Painting over or blackout of markings with other materials is specifically prohibited.

F MEASUREMENT

1. Crosswalks shall be measured by each unit installed complete in place from curb to curb. Crosswalks in areas of multiple lanes will be measured as a single unit unless separated by a raised island; where raised islands interfere with the continuous installation of a crosswalk the unit shall be from curblin to where it meets the raised island. Contract quantities reflect Phase I and Phase II of the total quantities.
2. All line type pavement markings shall be measured by the linear foot on the surface of the marking for the type specified.
3. Pavement marking words, symbols, arrows and logos of the type specified will be measured by each of the number of units applied.
4. Line removal will be measured by the square foot of area required to be removed.

G. PAYMENT

1. The accepted quantity for crosswalks shall be paid at the unit price for each installed with paint complete in place, or liner foot with epoxy.
2. The accepted quantity for line type pavement markings of the type specified shall be paid at the unit price per linear foot complete in-place for each 12 inch width line.
3. The accepted quantity for line type pavement markings specified to be wider than 4 inches, shall be paid at the unit price per linear foot complete in place.
4. The accepted quantity of reflectorized pavement marking words, arrows, crosswalks, handicap logos and symbols shall be paid at the contract unit price per each complete, in-place.
5. The accepted quantity of reflectorized yield pedestrian markings shall be paid at the unit rate for "YIELD" markings complete, in-place with pedestrian logos.
6. Payment for line removal shall be at the contract price per square foot by the number of square feet required to be removed, no payment shall be made for removal required due to errors or omissions by contractor.

TRAFFIC CONTROL AND CONSTRUCTION SIGNS

SECTION 00500

A. GENERAL

1. The Work under this Section shall consist of providing and maintaining safe and passable traffic accommodations for the public. This shall be done by furnishing, erecting, and maintaining construction signs, barricades, lights or other warning devices as required.
2. All work is to be done in accordance with the provisions of the "Manual On Uniform Traffic Control Devices" 2009 edition, and the NHDOT Standards and Specifications dated 2010, Sections 618 and 619, and the State of New Hampshire Traffic Control Handbook.
3. A traffic control plan shall be submitted to the Engineer for approval prior to start of work.
4. Control devices used shall meet the requirements for nighttime use set by the MUTCD. All cones, barrels, barricades, etc., must have appropriate reflective devices.
5. Construction signs shall be placed at each approach of the work to adequately warn traffic. If flaggers are used, additional warning signs shall be placed.
6. If acceptable traffic control is not maintained, as determined by the Engineer, the Contractor may be required to suspend work that interferes with traffic as directed.
7. When required, maintenance of traffic shall be accomplished by the use of flaggers or uniformed officers whenever construction restricts the flow of traffic in frequently traveled roads, or is required to be directed around the work area.
8. Proper maintenance of traffic shall be the Contractor's responsibility. Contractor shall provide all signs, channelizing devices, flaggers, etc., as required to provide safe travel for the public.

B. EQUIPMENT and PERSONAL PROTECTION

1. All personnel working on the project shall be required to wear safety vests, eye, ear, breathing, etc., protection as required by all local, State and Federal agencies.
2. Unless otherwise permitted, all vehicles used on the project for the purpose of traffic protection shall be equipped with an amber flashing light visible from all directions. The flashing amber light shall be maintained in continuous operation while vehicle is in or near any part of the roadway.

C. MEASUREMENT and PAYMENT

No separate measurement or payment shall be made for the work described in this section. This work shall be considered subsidiary to all items of the contract.

PAYMENT BOND

KNOW ALL MEN BY THESE PRESENTS: that

_____ doing
business as

_____ (a
corporation, partnership, individual),

hereinafter called **Principal**, and

_____ hereinafter called **Surety**, are held and firmly bound unto CITY OF SOMERSWORTH, NH, hereinafter called OWNER, in the penal sum of \$ _____ U.S. Dollars (\$ _____) in lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, successors, and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION is such that whereas, the Principal entered into a certain contract with the OWNER, dated the _____ day of _____, 2014, a copy of which is hereto attached and made a part hereof for the construction of Pavement Markings Project.

NOW, THEREFORE, if the Principal shall promptly make payment to all persons, firms, SUBCONTRACTORS, and corporations furnishing materials for or performing labor in the prosecution of the WORK provided for in such contract, and any authorized extension or modification thereof, including all amounts due for materials, lubricants, oil, gasoline, coal and coke, repairs on machinery, equipment and tools, consumed or used in connection with the construction of such WORK, and all insurance premiums on said WORK, and for all labor, performed in such WORK whether by SUBCONTRACTOR or otherwise, then this obligation shall be void; otherwise to remain in full force and effect.

PROVIDED, FURTHER, that the said surety, for value received hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract or to WORK to be performed thereunder or the SPECIFICATIONS accompanying the same shall in any way affect its obligation on this BOND, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the contract or to the WORK or to the SPECIFICATIONS.

PROVIDED, FURTHER, that no final settlement between the OWNER and the CONTRACTOR shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

IN WITNESS WHEREOF, this instrument is executed in five (5) counterparts, each one of which shall be deemed an original, this the _____ day of _____, 2014.

(SEAL)
ATTEST:

(signature)

NAME: _____

TITLE: _____

(SEAL)
ATTEST:

(signature)

NAME: _____

TITLE: _____

NOTE: Date of BOND must not be prior to date of Contract. If CONTRACTOR is a Partnership, all partners should execute BOND.

IMPORTANT: Surety companies executing BONDS must be authorized to transact business in New Hampshire.

PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS that

_____ a
(corporation, partnership, individual), hereinafter called Principal, and

_____ hereinafter called Surety,

are held and firmly bound unto the CITY OF SOMERSWORTH, N H, hereinafter called OWNER, in the penal sum of

_____ U.S. Dollars,
(\$ _____) in lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, successors, and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION is such that whereas, the Principal entered into a certain contract with the OWNER, dated the ___ day of _____, 2014, a copy of which is hereto attached and made a part hereof for the construction of the PAVEMENT MARKING project.

NOW, THEREFORE, if the Principal shall well, truly and faithfully perform its duties, all the undertakings, covenants, terms, conditions, and agreements of said contract during the original term thereof, and any extensions thereof which may be granted by the OWNER, with or without notice to the Surety and during the one year guarantee period, and if he shall satisfy all claims and demands incurred under such contract, and shall fully indemnify and save harmless the OWNER from all costs and damages which it may suffer by reason of failure to do so, and shall reimburse and repay the OWNER all outlay and expense which the OWNER may incur in making good any default, then this obligation shall be void; otherwise to remain in full force and effect.

PROVIDED, FURTHER, that the said surety, for value received hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract or to WORK to be performed thereunder or the SPECIFICATIONS accompanying the same shall in any way affect its obligation on this BOND, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the contract or to the contract or to the WORK or to the SPECIFICATIONS.

PROVIDED, FURTHER, that no final settlement between the OWNER and the CONTRACTOR shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

IN WITNESS WHEREOF, this instrument is executed in five (5) counterparts, each one of which shall be deemed an original, this the _____ day of _____, 2014.

(SEAL)

ATTEST:

ATTEST:

(SEAL)

(signature)

NAME: _____

TITLE: _____

(signature)

NAME: _____

TITLE: _____

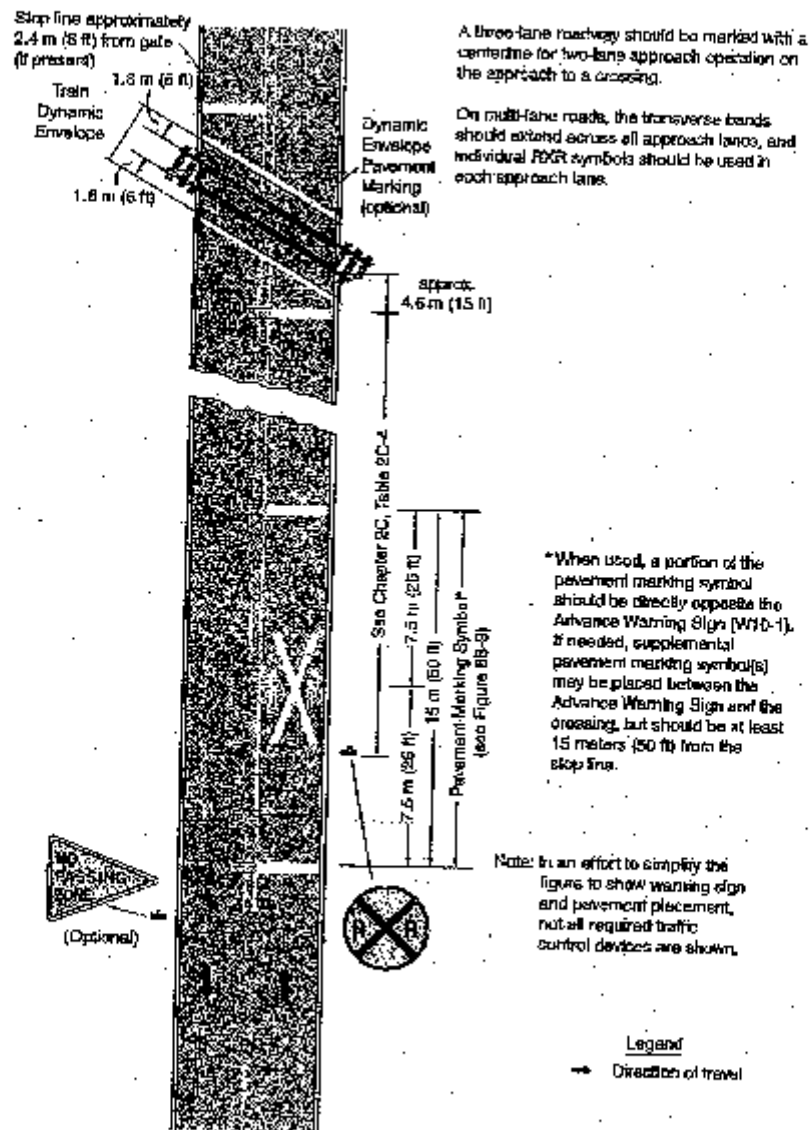
NOTE: Date of BOND must not be prior to date of Contract. If CONTRACTOR is Partnership, all partners should execute BOND.

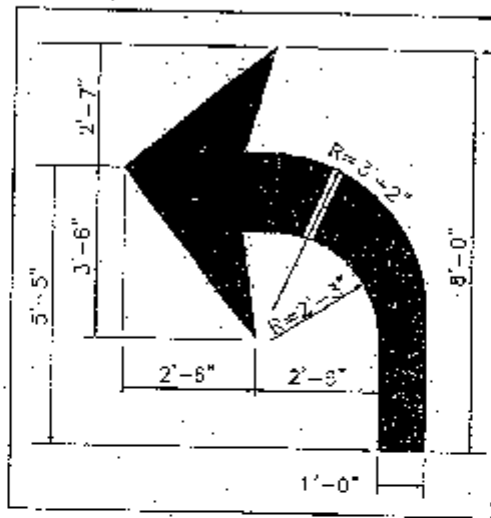
IMPORTANT: Surety companies executing BONDS must be authorized to transact business in New Hampshire.

APPENDIX B

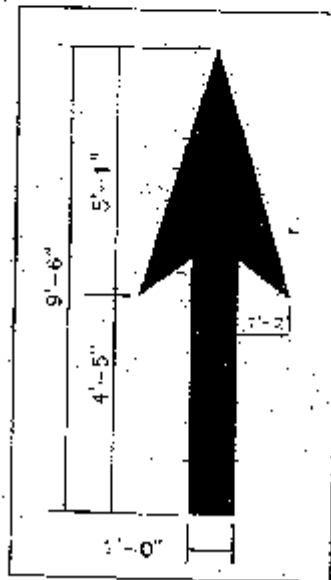
STANDARD WORDS AND SYMBOLS

Figure 8B-2. Typical Placement of Warning Signs and Pavement Markings at Highway-Rail Grade Crossings

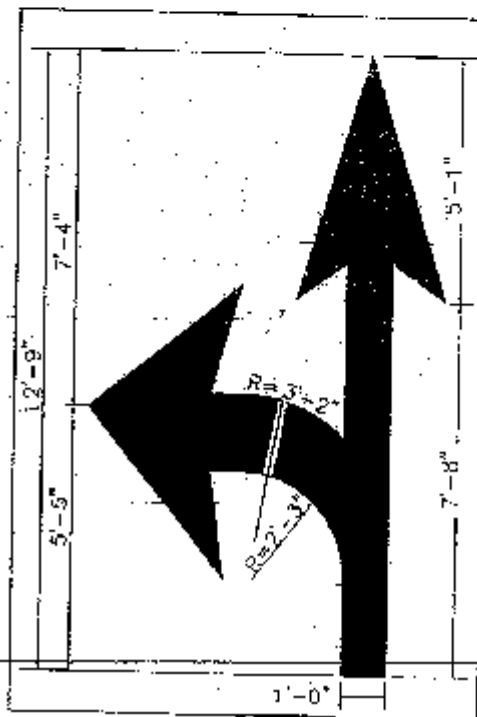




TURN ARROW



THROUGH (STRAIGHT) ARROW



BICYCLE PAVEMENT MARKING

SIZE: 3'-0" wide X 6'-0" length

MUTCD STANDARD SYMBOL LAYOUT

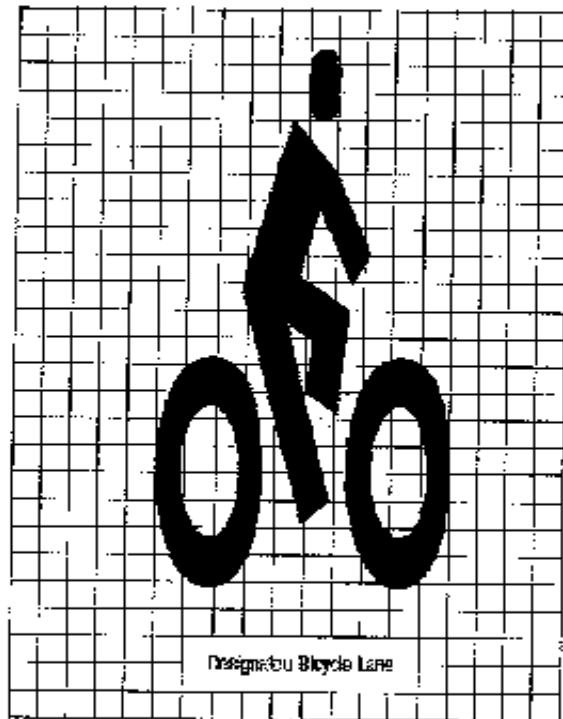
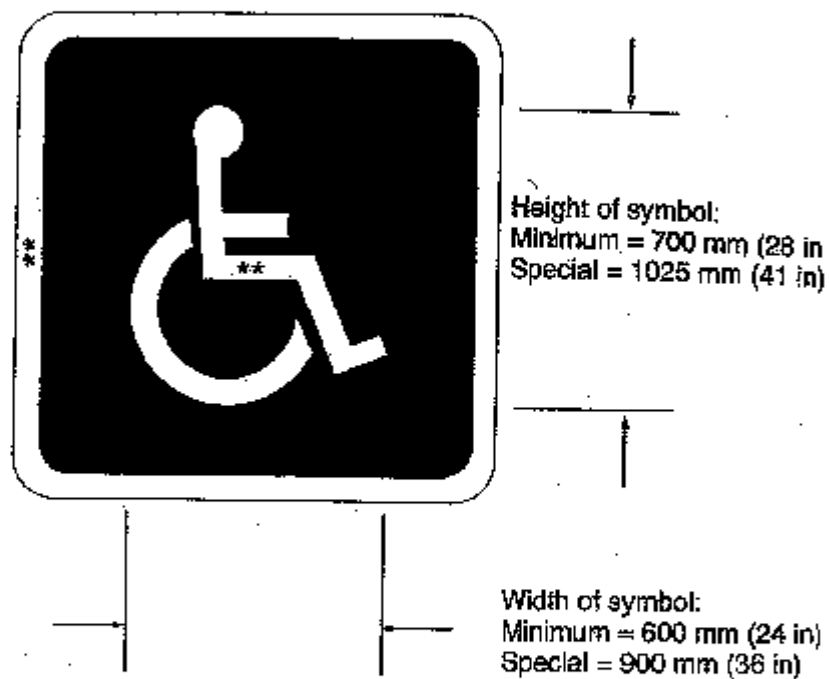
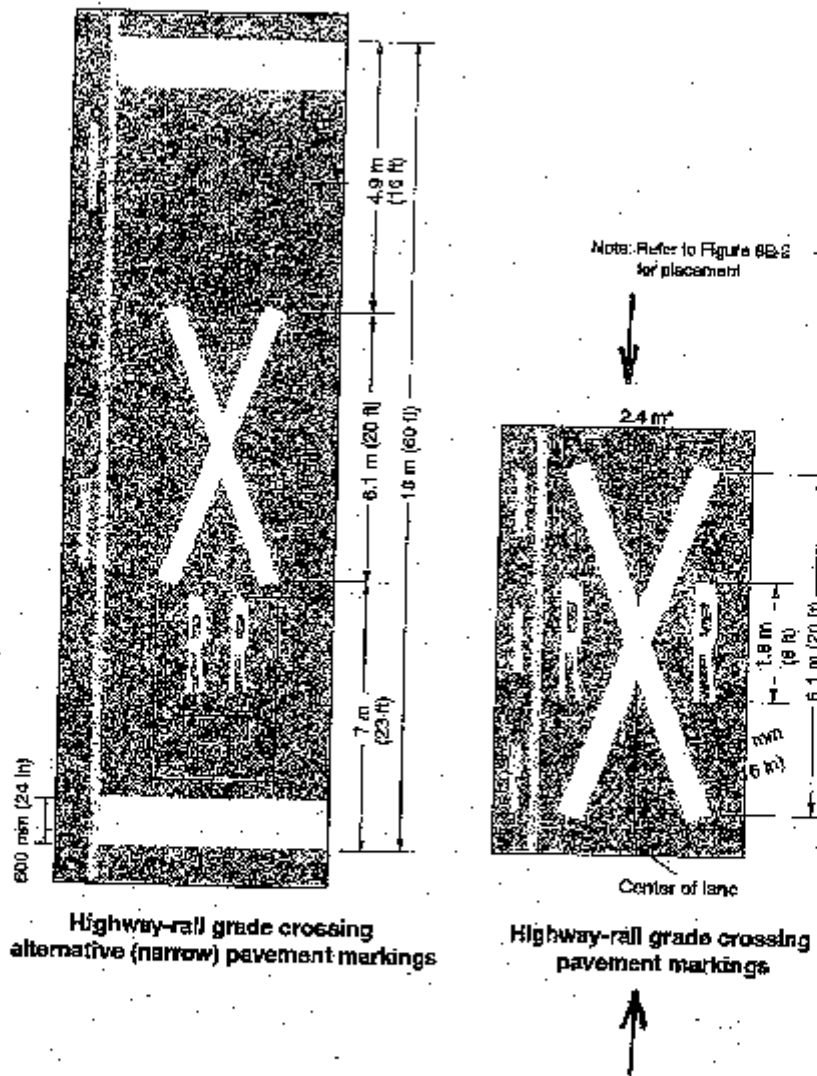


Figure 3B-19. International Symbol of Accessibility Parking Space Mark with Blue Background.

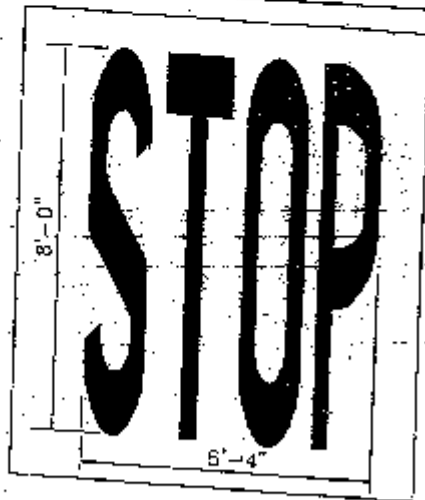
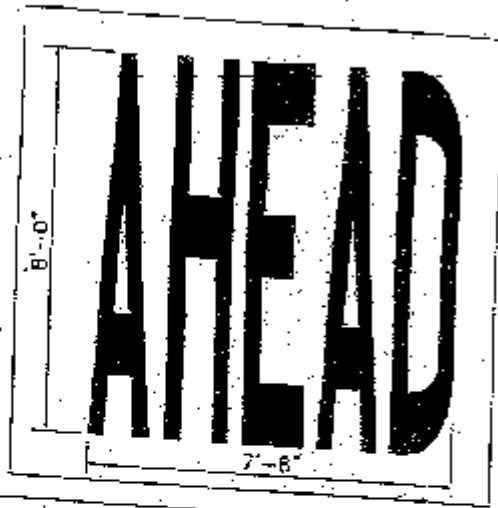


** Stroke width:
Minimum = 75 mm (3 in)
Special = 100 mm (4 in)

Figure 8B-3. Typical Highway-Rail Grade Crossing Pavement Markings



*Width may vary according to lane width



APPENDIX C

PARKING LOT DETAILS

**CITY PARKING LOTS REQUIRING MARKINGS
PER ITEM #4 "PARKING LOT STALLS"**

none